Quick start guide – Lisa devices

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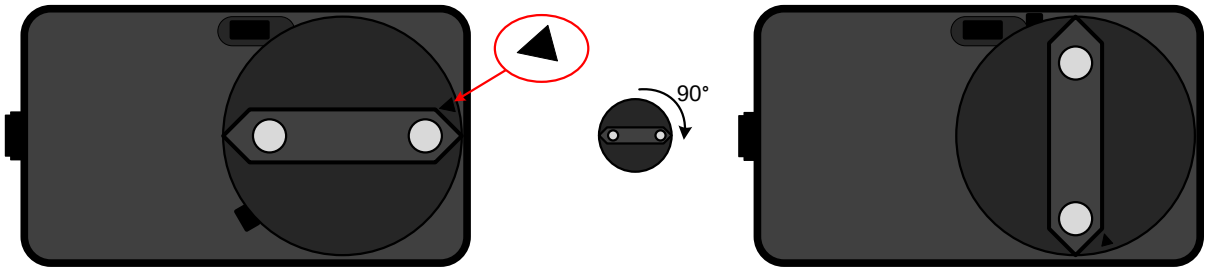
1 Device installation

- Take the device and the supplied materials out of the packaging. Make sure that all following components are included:
  - ✓ 1x Lisa Compact or Lisa LCD device
  - ✓ 1x 5V power supply
  - ✓ 1x set of three power plug adapters
  - ✓ 1x 3m UTP cable

- Place your Lisa in the desired location, close to an Ethernet switch/router.
- Plug in one side of the Ethernet cable in the Lisa. Plug the other side of the cable in the switch/router.
- Connect the audio output from the Lisa (cinch) to the audio equipment using an suitable audio cable (not included).
- Select the correct power plug adapter for your mains socket and mount this to the Lisa power adapter. Start at the position where the small triangle marking points to the top of the power supply, opposite to the side of the cord. Press down slightly and rotate the plug 90° clockwise as depicted below. You will hear a click and the adapter will be locked in place.



Start position End position

- Plug the power supply in the mains socket and plug the other side in the Lisa.

The Lisa device is now ready to be configured.

2 Device configuration

The Lisa devices can be used in combination with a range of provisioning[1] and distribution platforms (Streamit Device portal, Streamit Audio Distribution Platform (ADP) or an own platform) or as stand-alone audio players (with or without network connectivity).

Most applications use the Lisa with network connectivity, this may be for streaming purposes, content update, monitoring etc.

By default a Lisa device is programmed with the Streamit Device portal (DP) as provisioning platform.

The Lisa LCD starts up with the so-called configuration wizard, which asks the user to enter the most important configuration settings, such as menu language, IP settings etc.

[1] Provisioning is the act that the Lisa retrieves its configuration from a remote location, where the remote server is said to do the provisioning.

The Lisa Compact comes with pre-programmed default configurations. The most important being the network setting. By default DHCP is used.

The default settings used by the Lisa Compact and the settings possible to enter in the Lisa LCD during the configuration wizard, might not always be suitable for the specific network situation or application setup.

When working with the DP or another provisioning platform the most common configurations settings (e.g. list of station presets) can be changed on the platform side and get communicated to the device when this performs a configuration update (at startup or as a scheduled task).

To configure IP settings for the Lisa Compact, change the provisioning platform or other advanced configurations, Lisa Configuration Tool (LCT) can be used. LCT can be installed on a Windows PC and enables communication with the Lisa over USB.

LCT needs to be installed and started at least once, before the USB cable is connected. At startup LCT will check and install drivers if required. Only after the drivers have been installed, the Lisa can be connected to the PC using a USB-A to USB-B cable (Lisa LCD) or a USB A to USB Micro-B cable (Lisa Compact). USB cables are not included in the package.

3 Using the Lisa devices

The front view of the Lisa LCD device is depicted below in *Figure 1*. Lisa LCD features a two lines display, a power button, a slot for the SD/SDHC/SDXC memory card, IR receiver, status LED and a number of preset and functional buttons.

The power button is used to switch the device on and off, while the “Alt” will toggle between streaming and playing from card.

The numbered preset buttons (1-5) can be used to quickly switch between the first five preset stations when playing from the Internet or between the first five playlists when playing from card.

The function of the buttons on the right side of the keypad depend on the state of the Lisa. While playing, ▲and ▼can be used to select different stations/playlist, while the ◄ and ►will change the volume level.

Figure 1: Front view Lisa LCD

The front view of the Lisa Compact has been depicted below in *Figure 2*. Lisa Compact features four status LEDs and a Micro-USB service connector. The MicroSD card slot can be found at the centre of the bottom side, covered by a hatch mounted with a single screw.

⚠ Always disconnect the power before inserting/removing an SD card in the Lisa Compact.

Figure 2: Front view Lisa Compact

Each status LED can either be off or burn green, red or orange. Both constant and blinking light are possible. The status LEDs use green for no issue, orange for a warning and red for error.

When the power LED blinks green, the device is in idle state. The device can only be powered on from its schedule or by sending it commands from any of the available command interfaces (LCT, telnet, return command over monitoring connection). If the power LED burns green constantly, then the device is on. If the audio LED burns green constantly, then the device is playing audio.

A complete overview of the status LEDs protocol can be found in the full Lisa Compact user manual.

3.1.1 Switching Lisa LCD on for the first time

The first time the Lisa LCD is powered on, it will start in the configuration wizard mode.

1) The configuration wizard will ask the user for the most important configuration settings. Enter the correct information during the configuration wizard, especially with regard to IP settings. The Lisa requires valid IP settings to be able to connect to the provisioning platform, software update server and activation server. For networks employing a proxy, you must use LCT to configure the correct proxy details.

2) After the configuration wizard is complete, the device will try to connect to the default provisioning platform (Streamit Device portal) . Shortly after that, it will look whether a new version of the software is available and update if required.

3) Register and assign the correct configurations for this device in the chosen provisioning platform. The default provisioning platform is the Streamit Device portal. When a different provisioning platform is to be used, please use LCT to configure the correct platform location.

4) Reboot the device once, to get configurations from the provisioning platform.

5) During startup, the device activation is executed. The Lisa device will receive code from the activation server, enabling the capabilities on the device that correspond to the purchased edition. For more information, please see §3.2.

3.1.2 Switching Lisa Compact on for the first time

The first time the Lisa Compact is powered on, it will apply default settings for the most important settings, using DHCP for IP settings. When IP configuration via DHCP succeeds, the network status LED will burn green constantly.

1) In case DHCP is not supported in the specific network or a proxy is employed, you must use LCT to configure the correct IP and proxy settings. Only then the Lisa will able to connect to the

provisioning platform, software update server and activation server.

2) Once IP settings are configured, the device will try to connect to the default provisioning platform (Streamit Device portal). Shortly after that, it will look whether a new version of the software is available and update if required.

3) Register and assign the correct configurations for this device in the chosen provisioning platform. The default provisioning platform is the Streamit Device portal. When a different provisioning platform is to be used, please use LCT to configure the correct platform location.

4) Every minute the Lisa Compact will try to get new configurations from the provisioning platform, until it receives a configuration with one or more station presets. If you do not want to wait, a configuration update or reboot can be issued from any of the available command interfaces. It is also an option to unplug the power cable and plug it back again.

5) During startup, the device activation is executed. The Lisa device will receive code from the activation server, enabling the capabilities on the device that correspond to the purchased edition. For more information, please see §3.2.

3.2 Device activation

All Lisa devices are shipped with Basic edition capabilities. The Basic edition only supports streaming of content in MP3 format. If you have purchased a device of a different edition, this will only be enabled after the device has been activated.

During activation, the Lisa device receives code from the activation server, enabling the capabilities on the device that correspond to the purchased edition (e.g. Ultimate). Please note that it is not possible to upgrade/downgrade to a different edition after the purchase is made.

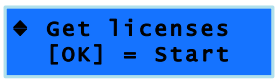
The activation process for a Lisa device running up-to-date software is automatic and transparent to the user. During startup, a non-activated Lisa device will connect to the activation server. For this to succeed, Internet connectivity is required; the device needs to be connected properly and correct network settings have to be programmed.

A limited number of devices from the initial production batches have been shipped with software which does not support automatic device activation. Streamit strongly recommends that these devices are updated to the latest available software release, which also ensures that the device activates automatically.

Should there be any reason against or technical challenges that do not allow the software of your Lisa devices to be updated, manual device activation is still be possible. The activation process for a Lisa device can be initiated from any of the available command interfaces, by issuing the respective command. At this stage LCT will most probably be used.

Command: **getlic**
Description: Start activation process

After the command is issued, the device contacts the activation server and receives the appropriate code.



For Lisa LCD devices, it is also possible to activate the device from the Service menu.

The device edition will be shown shortly on the display at startup, while activation results can always be viewed using LCT or under “Licenses” option of the service menu for Lisa LCD.

4 Streamit platforms

The default provisioning platform for Lisa devices is the Streamit Device portal (http://devices.streamit.eu). You may only register your Lisa devices after having purchased a configuration license from Streamit.

A Device portal configuration license will allow you to register your Lisa device, and provision the most common settings (list of station presets, software update resource etc.).

For Device portal facilities such as monitoring and scheduling, respective licenses are required. Please contact Streamit sales for more details and pricing information.

No additional licenses are required for configuration, monitoring and scheduling when the Lisa device is used in combination with the hosted version of the Streamit ADP. When running an own instance of the Streamit ADP, additional licensing fees apply. Please contact Streamit sales for more details and pricing information.

No platform usage fees will be applying in case the device is used with your own provisioning/distribution platform.

5 More information

For more information about the Lisa devices, please visit the Streamit website (http://streamit.eu). On the Streamit website you will also find more detailed documentation, user manuals, firmware and PC tools.

6 Technical support

For technical support regarding the Lisa devices, software tools or technical documentation, please contact you dealer first. In case you are a direct customer of Streamit, please visit the support page (http://www.streamit.eu/support/) where you will find knowledgebase section as well as an option to submit support tickets.